

## Recombinant Rat Interleukin-1 $\alpha$ (IL-1 $\alpha$ )

|                     |   |            |
|---------------------|---|------------|
| <b>CATALOG #:</b>   | 4127-10   | 10 $\mu$ g |
|                     | 4127-1000   | 1 mg       |
| <b>LOT #:</b>       | _____   |            |
| <b>SOURCE:</b>      | <i>E. coli</i>  |            |
| <b>PURITY:</b>      | >98% by SDS-PAGE and HPLC analysis<br>Endotoxin level is <0.1 ng per $\mu$ g of IL-1 $\alpha$ . |            |
| <b>MOL. WEIGHT:</b> | 17.7 kDa  |            |
| <b>FORMULATION:</b> | Sterile filtered and lyophilized from 1 mM Tris buffer, pH 8.0                                  |            |

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or – 20°C for future use.

### STORAGE CONDITIONS:

The lyophilized IL-1 $\alpha$  is best-stored desiccated below 0°C. Reconstituted IL-1 $\alpha$  should be stored at working aliquots at -20°C.

### DESCRIPTION:

Interleukin-1 alpha (IL-1 $\alpha$ ) is a potent immuno-modulator that mediates a wide range of immune and inflammatory responses. Rat IL-1 $\alpha$  is a 17.7 kDa protein containing 155 amino acid residues.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of murine D10S cells is  $\leq$ 0.005 ng/ml, corresponding to a specific activity of  $>2 \times 10^9$  units/mg.

**FOR RESEARCH USE ONLY! Not to be used in humans.**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies